

### ABSTRACT

A data transaction device having contact and contactless modes of operation, comprises a semiconductor device for operating in contact and contactless modes in accordance with a respective contact or contactless data communications protocol. A contact field includes contacts fixedly connected to the semiconductor device for allowing data transmission between the contacts and the semiconductor device in accordance with the contact data communications protocol, whilst a coil antenna allows contactless data transmission between the coil antenna and the semiconductor device, in accordance with the contactless data communications protocol. An antenna interface coupled to the coil antenna, to the semiconductor device and to at least some of the contacts in the contact field is responsive to an electromagnetic field across the coil antenna for effecting contactless data transmission.